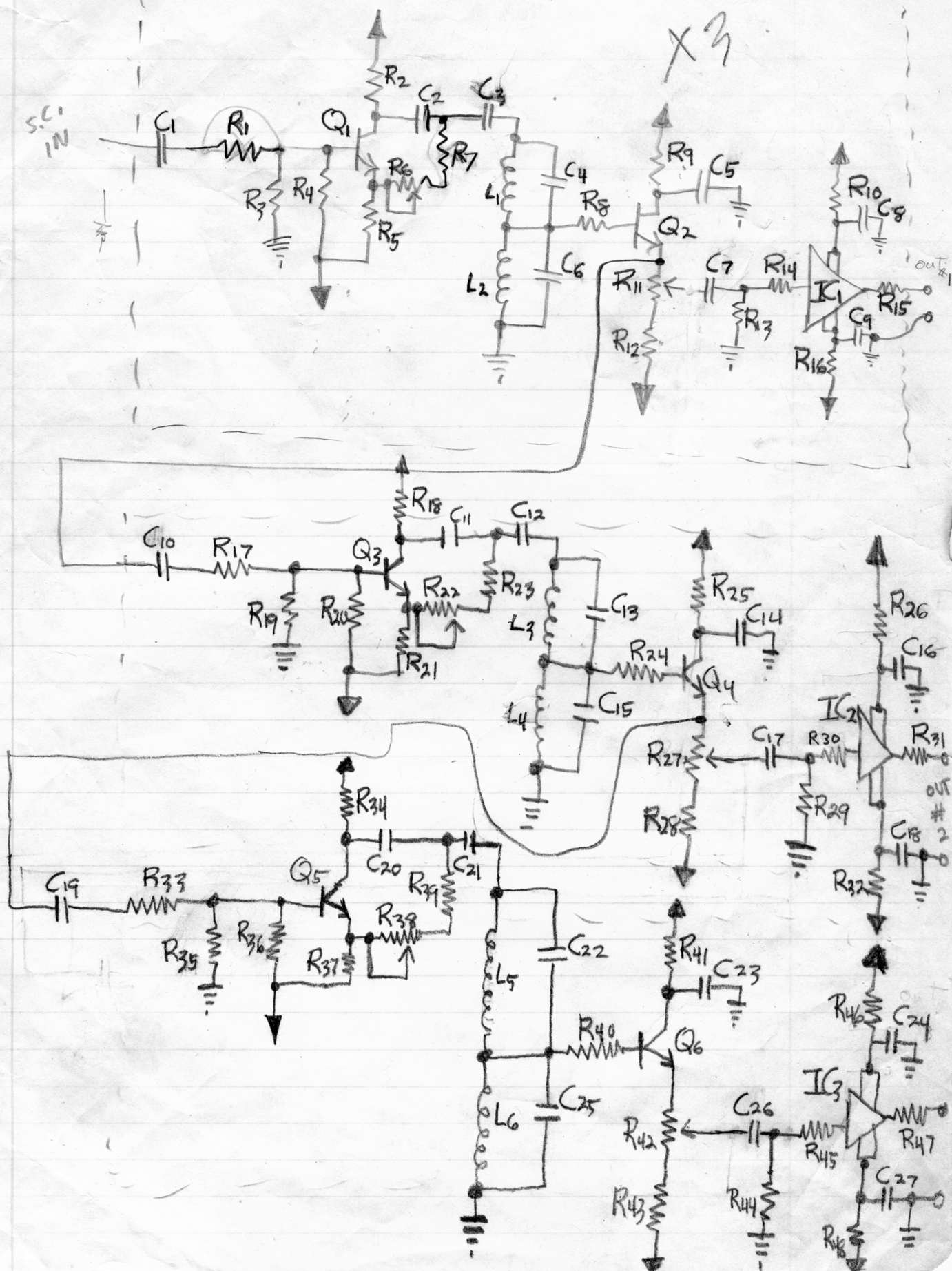


-12 LOOP?  
-12 N.C.

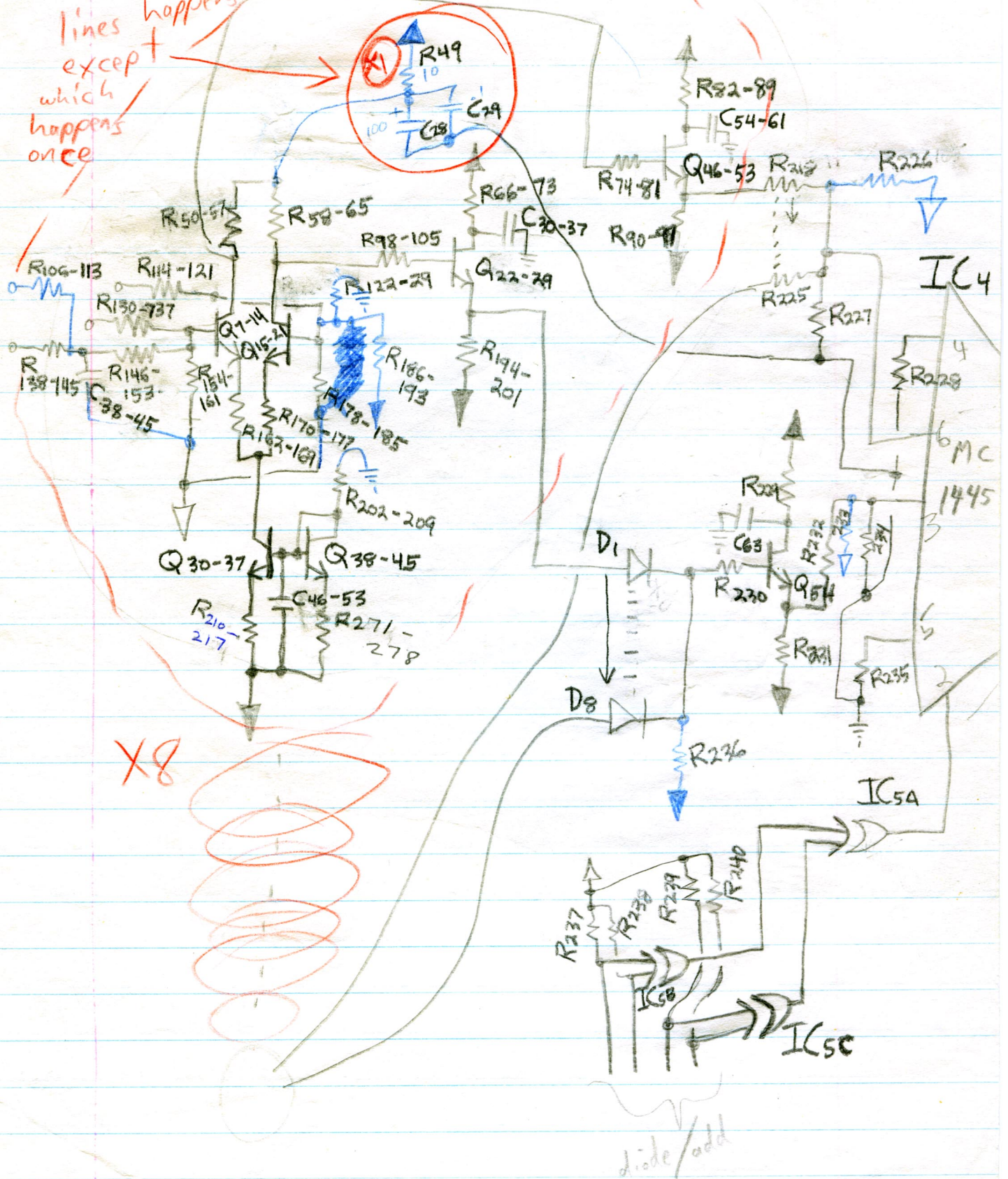
RGB p1 of 4.





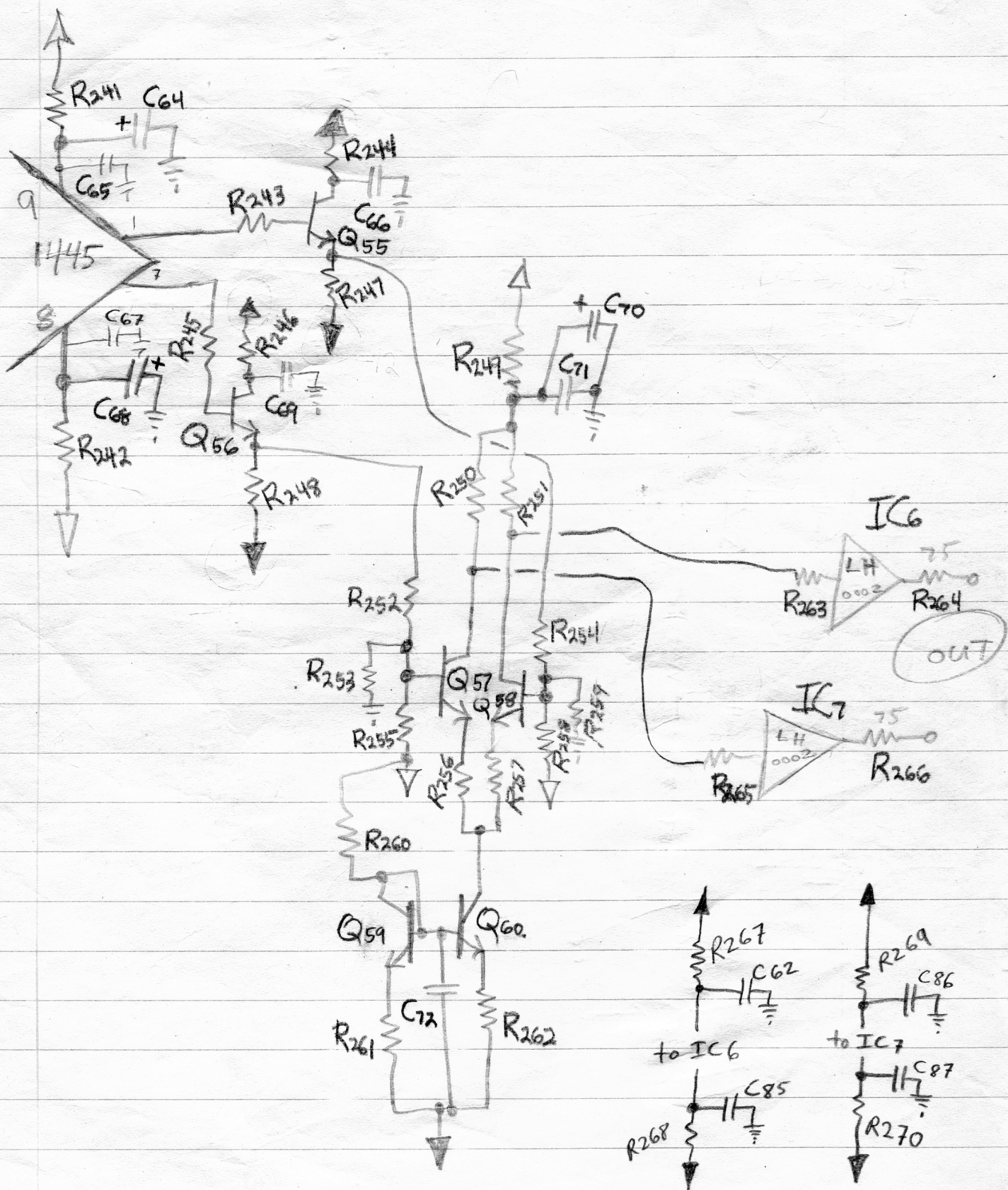
5.7(6)

everything  
inside dotted  
lines happens 8 times  
except which  
happens  
once

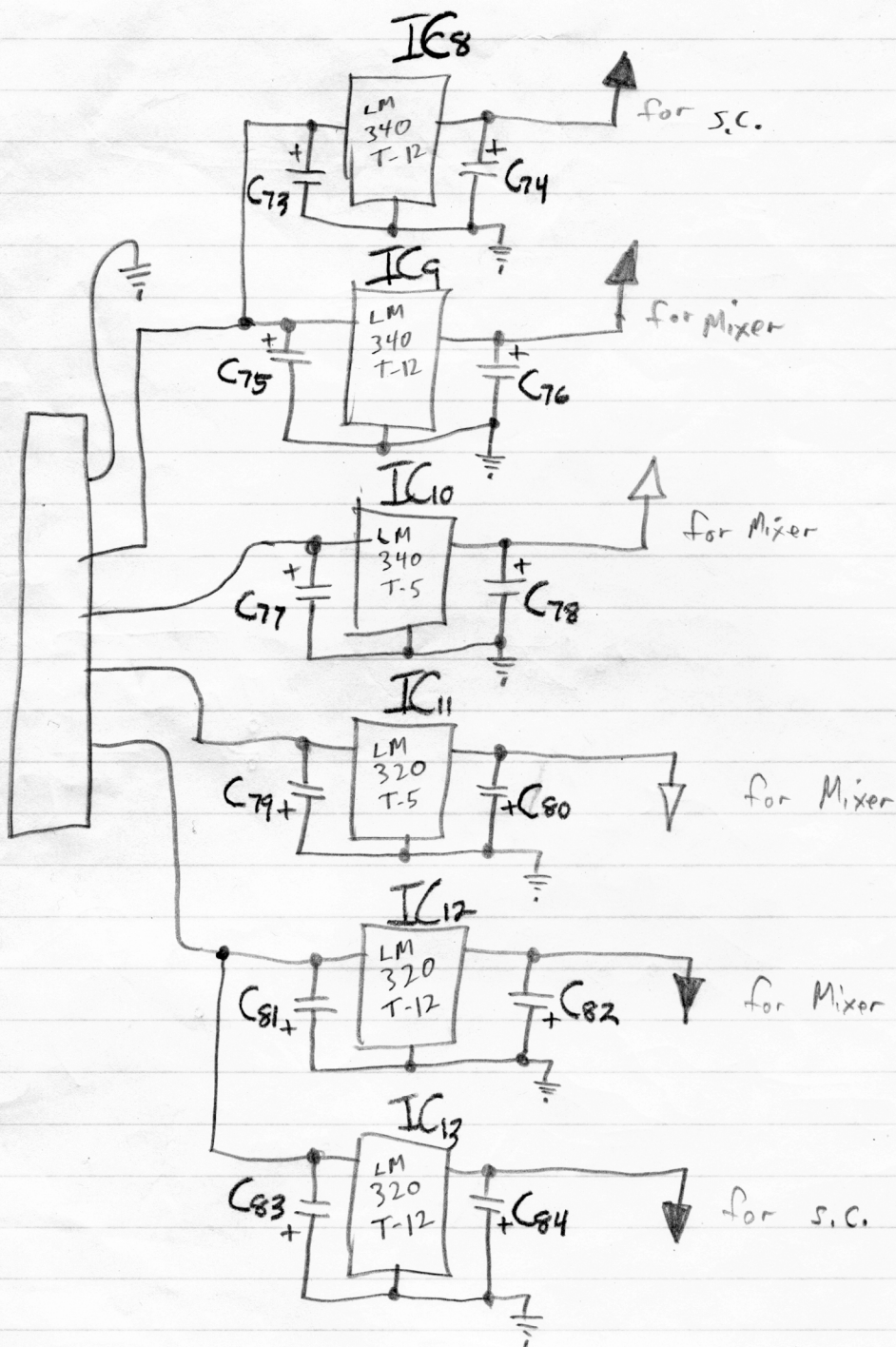




RGB p 3 of 4





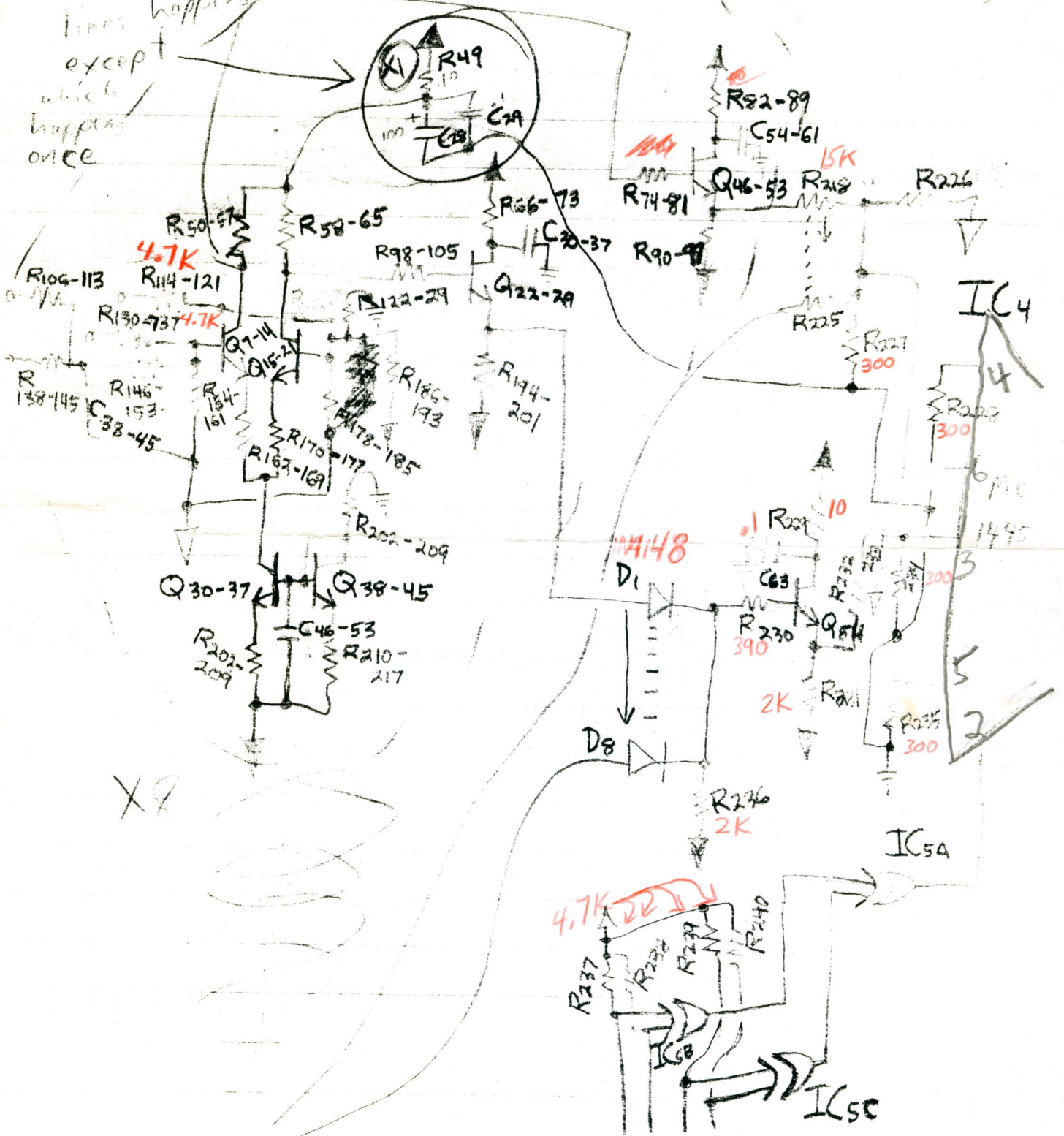




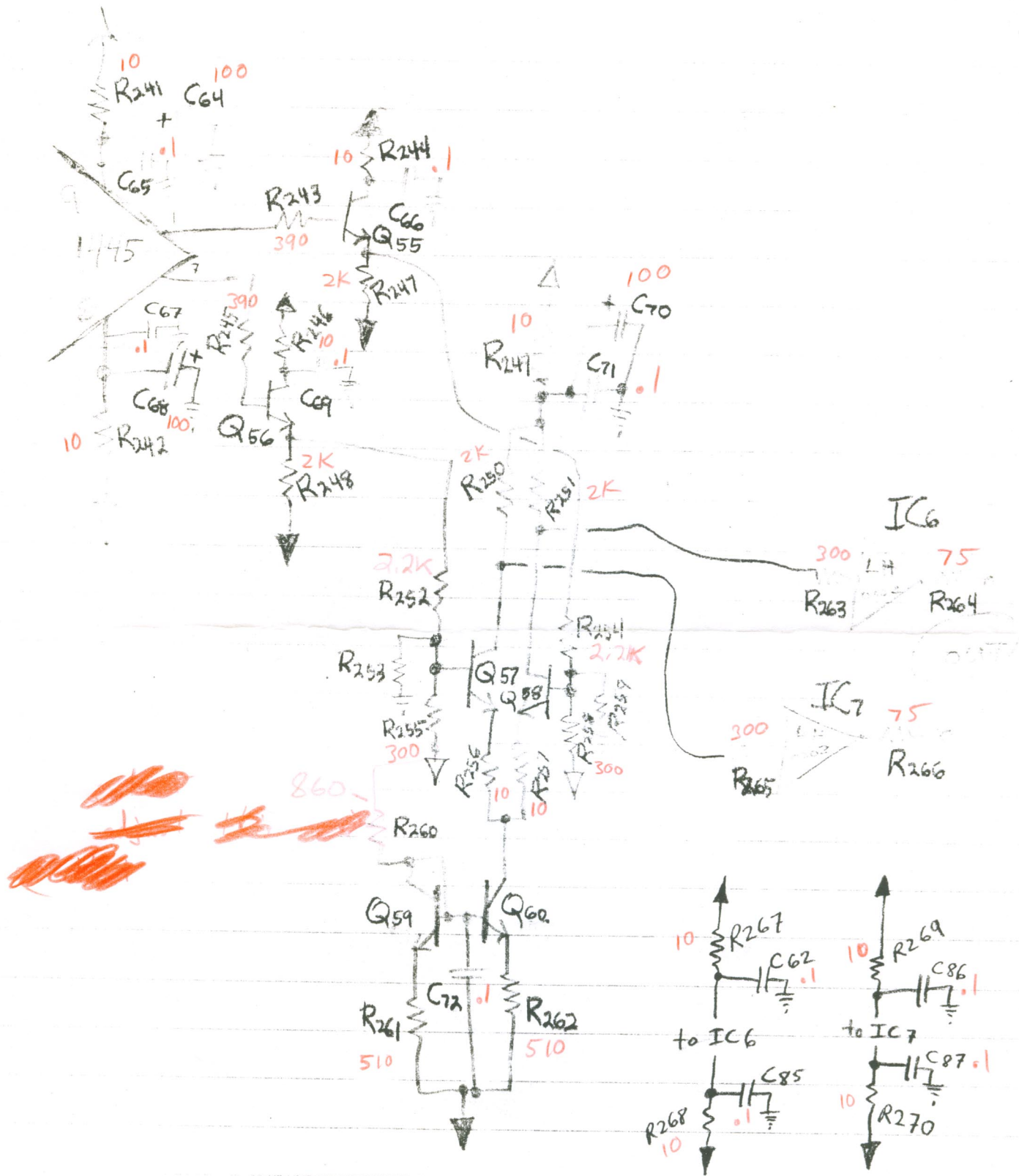
everything  
inside dotted  
lines happens 2 times  
except  
which  
happens  
once

R6B #2 of 4

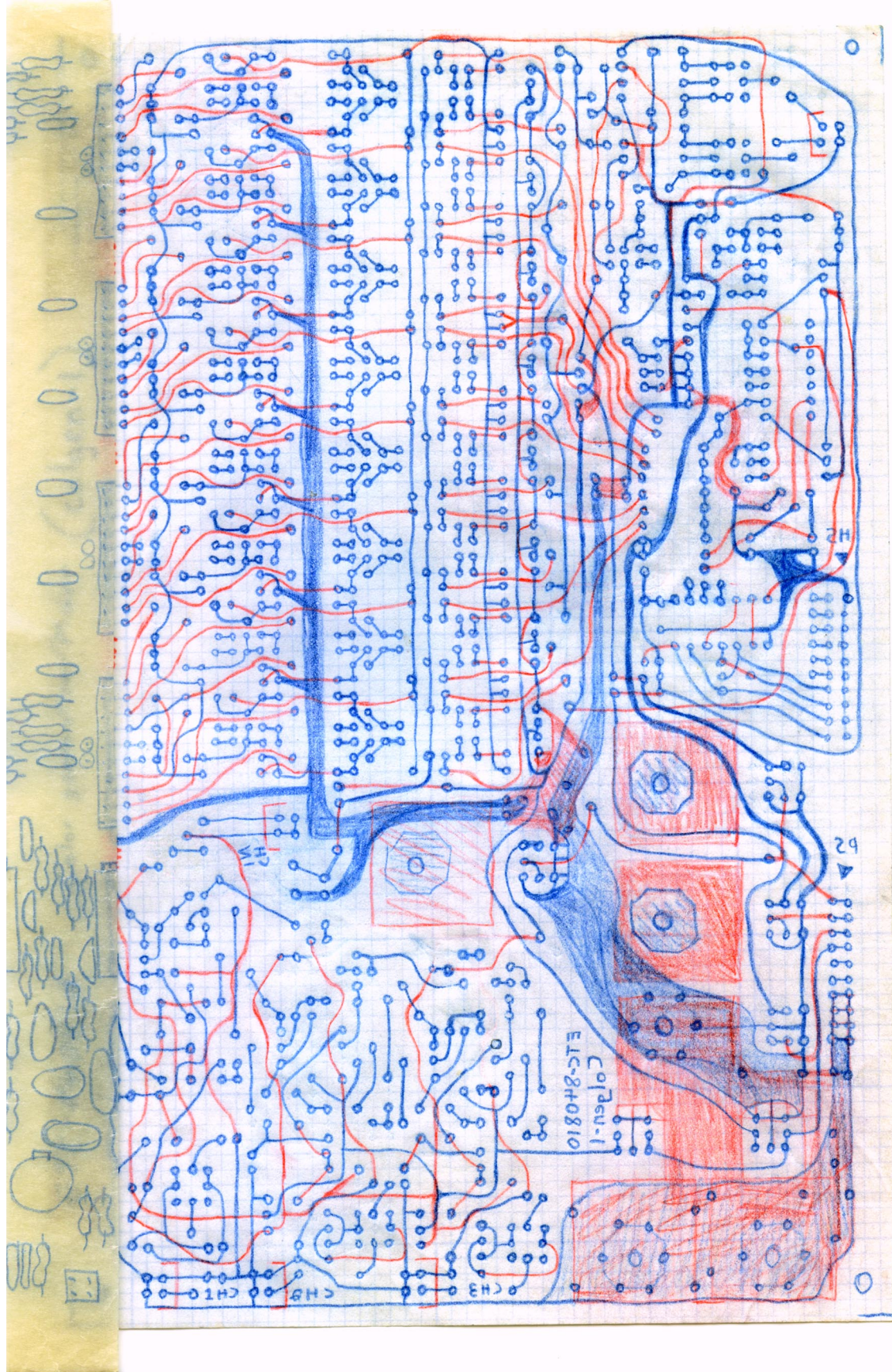
5.1







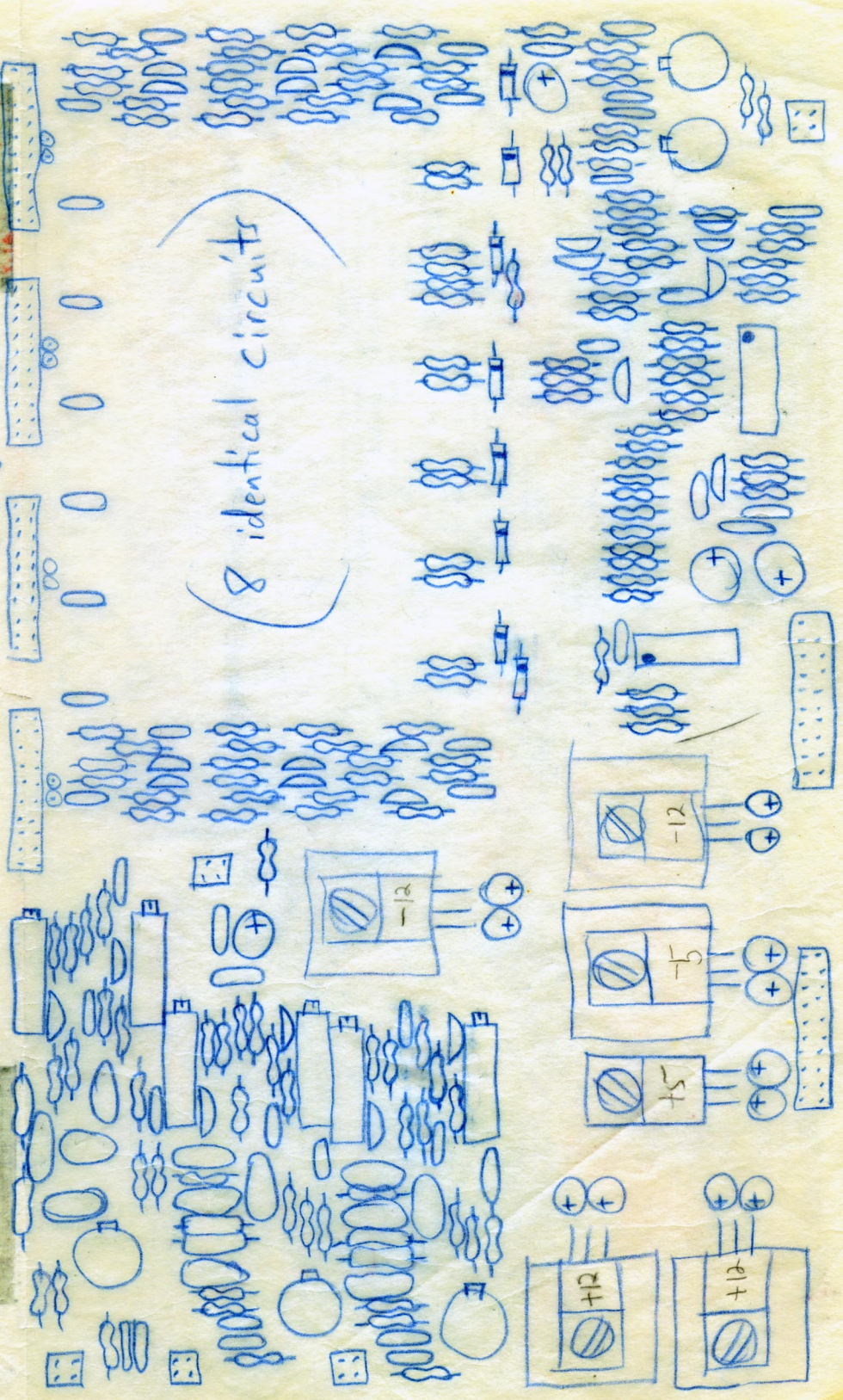






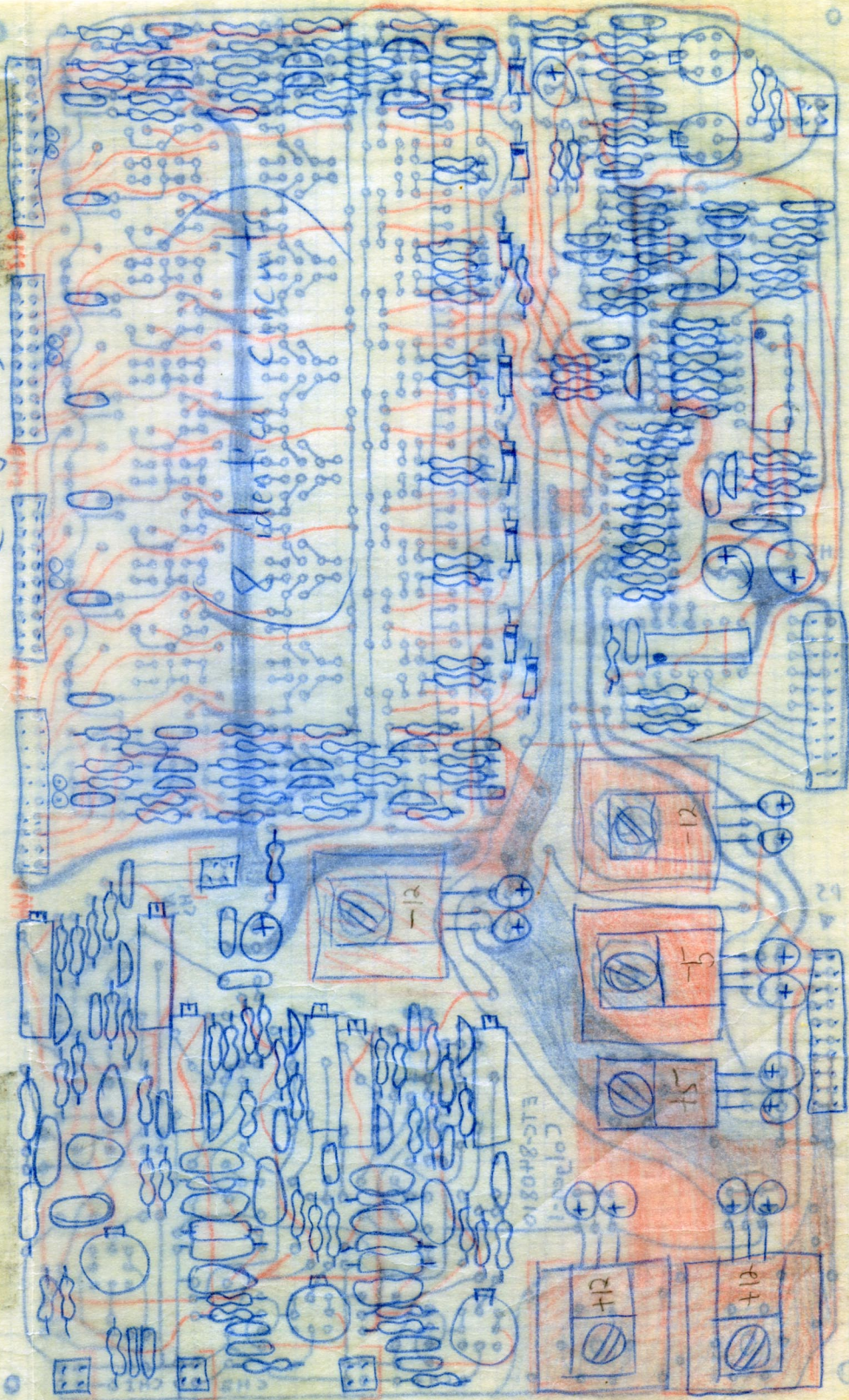
ETC-840810

Color generator/Mixer (colgen-1)





ETC-840810 Color generator/Mixer (colgen-1)

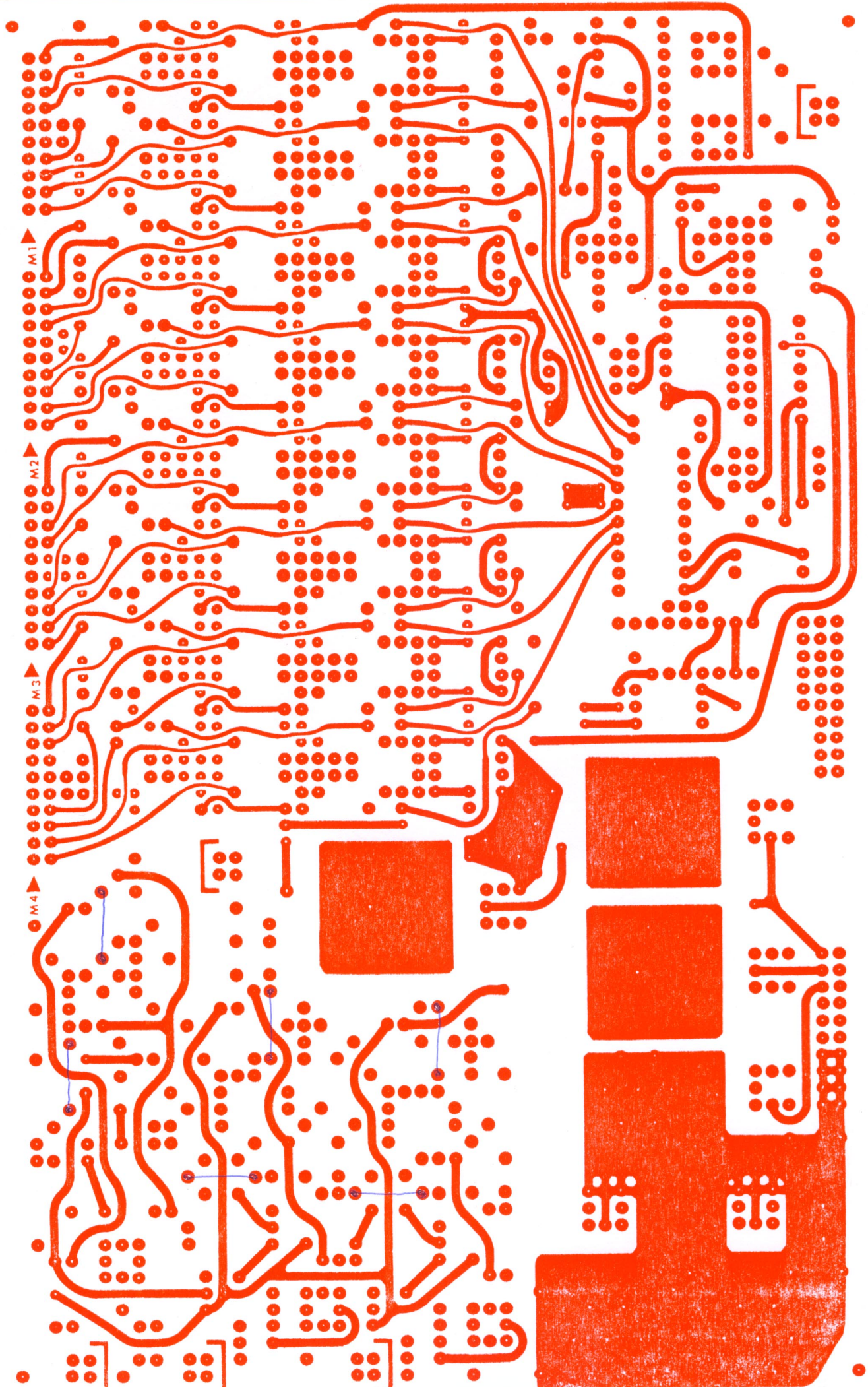




Colony-1 (RGB-Mix)

component  
side

12/18/85





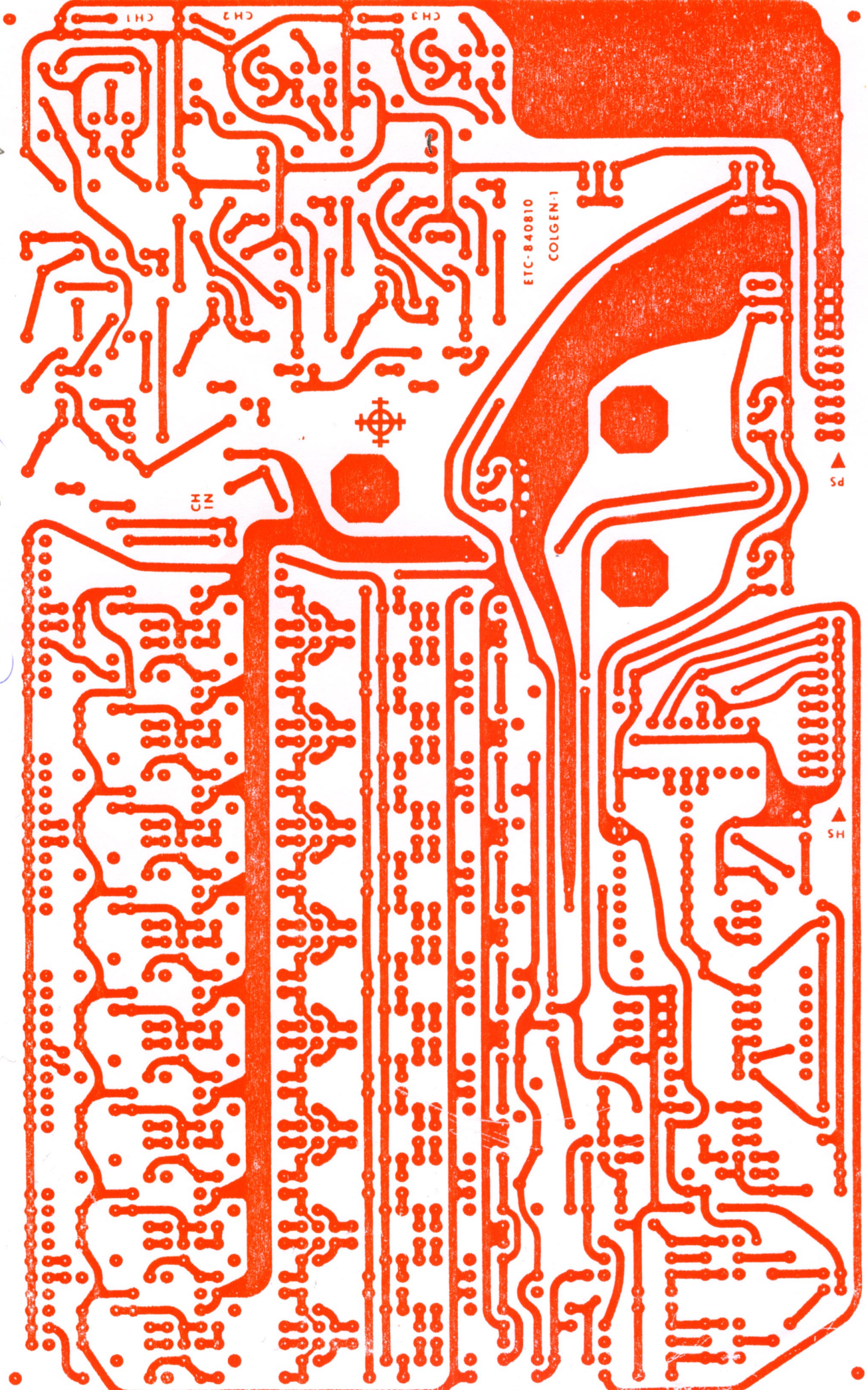
Cologen-1 (RGB-Mix)

Is the site

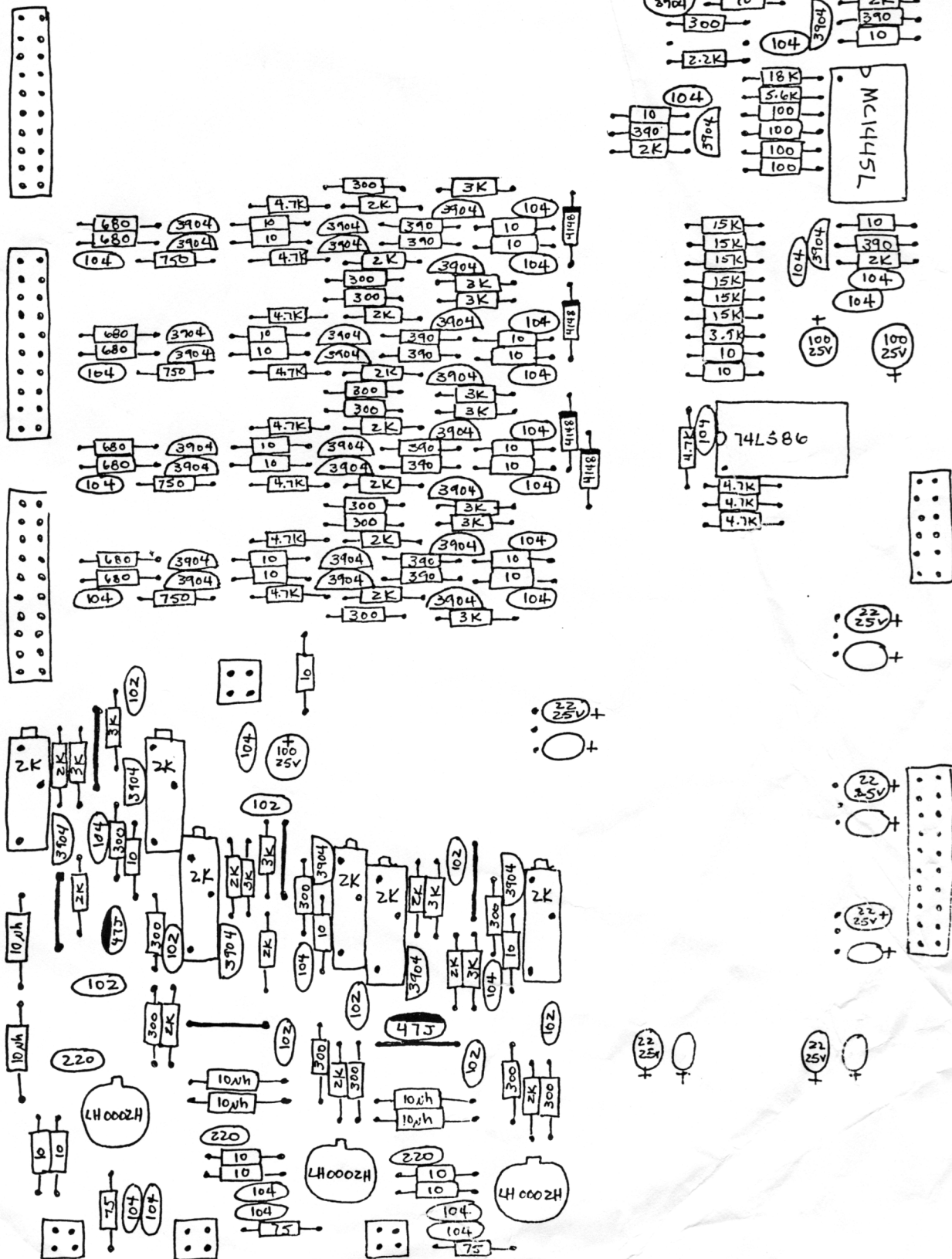
(M. B. Cologen-1)

12/18/85

1 jumper









**Designlab**BOARD NAME CalorgenBOARD NUMBER                     COMMENTS                                     All resistors are  $\frac{1}{4}$  watt 5% unless otherwise noted

SCHEMATIC NUMBER	PART NUMBER / VALUE
R1	$\emptyset \Omega$ (Jumper)
R2	2K
R3	3K
R4	3K
R5	2K
R6	500 $\Omega$ Trimpot (89P Type)
R7	$\emptyset \Omega$
R8	300
R9	10
R10	10
R11	500 $\Omega$ Trimpot
R12	300
R13	2K
R14	300
R15	75
R16	10
R17	$\emptyset \Omega$
R18	2K
R19	3K
R20	3K
R21	2K
R22	500 $\Omega$ trimpot
R23	$\emptyset \Omega$
R24	300
R25	10

SCHEMATIC NUMBER	PART NUMBER / VALUE
R26	10
R27	500 $\Omega$ trimpot
R28	300
R29	2K
R30	300
R31	75
R32	10
R33	$\emptyset \Omega$
R34	2K
R35	3K
R36	3K
R37	2K
R38	500 $\Omega$ trimpot
R39	$\emptyset \Omega$
R40	300
R41	10
R42	500 $\Omega$ trimpot
R43	300
R44	2K
R45	300
R46	10
R47	75
R48	10
R49	10
R50	2K

**Designlab**BOARD NAME Color genBOARD NUMBER                     COMMENTS                                     

SCHEMATIC NUMBER	PART NUMBER / VALUE
R51	2K
R52	2K
R53	2K
R54	2K
R55	2K
R56	2K
R57	2K
R58	2K
R59	2K
R60	2K
R61	2K
R62	2K
R63	2K
R64	2K
R65	2K
R66	10
R67	10
R68	10
R69	10
R70	10
R71	10
R72	10
R73	10
R74	390
R75	390

SCHEMATIC NUMBER	PART NUMBER / VALUE
R76	390
R77	390
R78	390
R79	390
R80	390
R81	390
R82	10
R83	10
R84	10
R85	10
R86	10
R87	10
R88	10
R89	10
R90	3K
R91	3K
R92	3K
R93	3K
R94	3K
R95	3K
R96	3K
R97	3K
R98	390
R99	390
R100	390



**Designlab**BOARD NAME Colorgen

Note:

Some resistors

BOARD NUMBER                     COMMENTS                     

have a capacitor on top (piggyback)  
these caps are for frequency comp. and are not in cap. list.  
Such as

⊗ = not normally used (tuned part)

SCHEMATIC NUMBER	PART NUMBER / VALUE
R101	390
R102	390
R103	390
R104	390
R105	390
R106	
R107	
R108	
R109	
R110	
R111	
R112	
R113	
R114	4.7K (with 15pf on top)
R115	4.7K "
R116	4.7K "
R117	4.7K "
R118	4.7K "
R119	4.7K "
R120	4.7K "
R121	4.7K "
R122	⊗
R123	⊗
R124	⊗
R125	⊗

SCHEMATIC NUMBER	PART NUMBER / VALUE
R126	⊗
R127	⊗
R128	⊗
R129	⊗
R130	4.7K (15pf on top)
R131	4.7K "
R132	4.7K "
R133	4.7K "
R134	4.7K "
R135	4.7K "
R136	4.7K "
R137	4.7K "
R138	
R139	
R140	
R141	
R142	
R143	
R144	
R145	
R146	
R147	
R148	
R149	
R150	

**Designlab**

BOARD NAME

ColorgenBOARD NUMBER                     COMMENTS                                     

SCHEMATIC NUMBER	PART NUMBER / VALUE
R151	
R152	
R153	
R154	300
R155	300
R156	300
R157	300
R158	300
R159	300
R160	300
R161	300
R162	10
R163	10
R164	10
R165	10
R166	10
R167	10
R168	10
R169	10
R170	10
R171	10
R172	10
R173	10
R174	10
R175	10

SCHEMATIC NUMBER	PART NUMBER / VALUE
R176	10
R177	10
R178	300
R179	300
R180	300
R181	300
R182	300
R183	300
R184	300
R185	300
R186	✱
R187	✱
R188	✱
R189	✱
R190	✱
R191	✱
R192	✱
R193	✱
R194	3K
R195	3K
R196	3K
R197	3K
R198	3K
R199	3K
R200	3K



**Designlab**

BOARD NAME

ColorgenBOARD NUMBER                     COMMENTS                                     

SCHEMATIC NUMBER	PART NUMBER / VALUE
R201	3K
R202	750
R203	750
R204	750
R205	750
R206	750
R207	750
R208	750
R209	750
R210	680
R211	680
R212	680
R213	680
R214	680
R215	680
R216	680
R217	680
R218	15K
R219	15K
R220	15K
R221	15K
R222	15K
R223	15K
R224	15K
R225	15K

SCHEMATIC NUMBER	PART NUMBER / VALUE
R226	3.9K
R227	100
R228	100
R229	10
R230	300
R231	2K
R232	5.6K
R233	18K
R234	100
R235	100
R236	2K
R237	4.7K
R238	4.7K
R239	4.7K
R240	4.7K
R241	10
R242	10
R243	300
R244	10
R245	300
R246	10
R247	2K
R248	2K
R249	10
R250	2K



**Designlab**BOARD NAME ColorgenBOARD NUMBER                     COMMENTS                                     

SCHEMATIC NUMBER	PART NUMBER / VALUE
R251	2K
R252	10K (22pf on top)
R253	
R254	10K (22pf on top)
R255	300
R256	10
R257	10
R258	300
R259	16K
R260	860
R261	510
R262	510
R263	300
R264	75
R265	300
R266	75
R267	10
R268	10
R269	10
R270	10
R271	680
R272	680
R273	680
R274	680
R275	680

SCHEMATIC NUMBER	PART NUMBER / VALUE
R276	680
R277	680
R278	680
R279	
R280	
R281	
R282	
R283	
R284	
R285	
R286	
R287	
R288	
R289	
R290	
R291	
R292	
R293	
R294	
R295	
R296	
R297	
R298	
R299	
R300	



**Designlab**BOARD NAME Colorgen (RGB-Mix)

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

SCHEMATIC NUMBER	PART NUMBER / VALUE
C1	.001 $\mu$ f Ceramic disc
C2	47 pF
C3	.001 $\mu$ f "
C4	<del>0 pF</del>
C5	.1 $\mu$ f "
C6	22 pF
C7	.001 $\mu$ f "
C8	.1 $\mu$ f "
C9	.1 $\mu$ f "
C10	.001 $\mu$ f "
C11	47 pF
C12	.001 $\mu$ f "
C13	<del>0 pF</del>
C14	.1 $\mu$ f "
C15	22 pF
C16	.1 $\mu$ f "
C17	.001 $\mu$ f "
C18	.1 $\mu$ f "
C19	.001 $\mu$ f "
C20	47 pF
C21	.001 $\mu$ f
C22	<del>0 pF</del>
C23	.1 $\mu$ f "
C24	.1 $\mu$ f "
C25	22 pF

SCHEMATIC NUMBER	PART NUMBER / VALUE
C26	.001 $\mu$ f Ceramic disc
C27	.1 $\mu$ f "
C28	100 $\mu$ f @ 25v Alum. Elect.
C29	.1 $\mu$ f Ceramic disc
C30	.1 $\mu$ f "
C31	.1 $\mu$ f "
C32	.1 $\mu$ f "
C33	.1 $\mu$ f "
C34	.1 $\mu$ f "
C35	.1 $\mu$ f "
C36	.1 $\mu$ f "
C37	.1 $\mu$ f "
C38	.001 $\mu$ f "
C39	.001 $\mu$ f "
C40	.001 $\mu$ f "
C41	.001 $\mu$ f "
C42	.001 $\mu$ f "
C43	.001 $\mu$ f "
C44	.001 $\mu$ f "
C45	.001 $\mu$ f "
C46	.1 $\mu$ f "
C47	.1 $\mu$ f "
C48	.1 $\mu$ f "
C49	.1 $\mu$ f "
C50	.1 $\mu$ f "



**Designlab**

BOARD NAME \_\_\_\_\_

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

SCHEMATIC NUMBER	PART NUMBER / VALUE
C51	.1 $\mu$ f Ceramic disc
C52	.1 $\mu$ f "
C53	.1 $\mu$ f "
C54	.1 $\mu$ f "
C55	.1 $\mu$ f "
C56	.1 $\mu$ f "
C57	.1 $\mu$ f "
C58	.1 $\mu$ f "
C59	.1 $\mu$ f "
C60	.1 $\mu$ f "
C61	.1 $\mu$ f "
C62	.1 $\mu$ t
C63	.1 $\mu$ f
C64	100 $\mu$ f @ 10v Alum. Elect.
C65	.1 $\mu$ f Ceramic disc
C66	.1 $\mu$ f "
C67	.1 $\mu$ f "
C68	100 $\mu$ f @ 10v Alum. Elect.
C69	.1 $\mu$ f Ceramic disc
C70	100 $\mu$ f @ 10v Alum. Elect.
C71	.1 $\mu$ f Ceramic disc
C72	.1 $\mu$ f "
C73	22 $\mu$ f @ 25v Alum. Elect.
C74	22 $\mu$ f " "
C75	22 $\mu$ f " "

SCHEMATIC NUMBER	PART NUMBER / VALUE
C76	22 $\mu$ f @ 25v Alum. Elect.
C77	22 " "
C78	22 " "
C79	22 " "
C80	22 " "
C81	22 " "
C82	22 " "
C83	22 " "
C84	22 " "
C85	.1 $\mu$ t CERAMIC DISC
C86	.1 $\mu$ t CERAMIC DISC
C87	.1 $\mu$ t CERAMIC DISC
C88	
C89	
C90	
C91	
C92	
C93	
C94	
C95	
C96	
C97	
C98	
C99	
C100	

**Designlab**BOARD NAME Colorgen (RGB-Mix)

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

SCHEMATIC NUMBER	PART NUMBER / VALUE
IC1	LH0002CH
IC2	"
IC3	"
IC4	MC1445L
IC5	74LS86
IC6	LH0002CH
IC7	"
IC8	LM340T-12
IC9	"
IC10	LM340T-5
IC11	LM320T-5
IC12	LM320T-12
IC13	"
IC14	
IC15	
IC16	
IC17	
IC18	
IC19	
IC20	
IC21	
IC22	
IC23	
IC24	
IC25	

SCHEMATIC NUMBER	PART NUMBER / VALUE
IC26	
IC27	
IC28	
IC29	
IC30	
IC31	
IC32	
IC33	
IC34	
IC35	
IC36	
IC37	
IC38	
IC39	
IC40	
IC41	
IC42	
IC43	
IC44	
IC45	
IC46	
IC47	
IC48	
IC49	
IC50	



**Designlab**BOARD NAME Colorgen(RGB-Mix)

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

SCHEMATIC NUMBER	PART NUMBER / VALUE
Q1	2N3904
Q2	"
Q3	"
Q4	"
Q5	"
Q6	"
Q7	"
Q8	"
Q9	"
Q10	"
Q11	"
Q12	"
Q13	"
Q14	"
Q15	"
Q16	"
Q17	"
Q18	"
Q19	"
Q20	"
Q21	"
Q22	"
Q23	"
Q24	"
Q25	"

SCHEMATIC NUMBER	PART NUMBER / VALUE
Q26	2N3904
Q27	"
Q28	"
Q29	"
Q30	"
Q31	"
Q32	"
Q33	"
Q34	"
Q35	"
Q36	"
Q37	"
Q38	"
Q39	"
Q40	"
Q41	"
Q42	"
Q43	"
Q44	"
Q45	"
Q46	"
Q47	"
Q48	"
Q49	"
Q50	"

**Designlab**BOARD NAME Colorgen

BOARD NUMBER \_\_\_\_\_

COMMENTS \_\_\_\_\_

SCHEMATIC NUMBER	PART NUMBER / VALUE
Q51	2N3904
Q52	"
Q53	"
Q54	"
Q55	"
Q56	"
Q57	"
Q58	"
Q59	"
Q60	"
Q61	
Q62	
Q63	
Q64	
Q65	
Q66	
Q67	
Q68	
Q69	
Q70	
Q71	
Q72	
Q73	
Q74	
Q75	

SCHEMATIC NUMBER	PART NUMBER / VALUE
Q76	
Q77	
Q78	
Q79	
Q80	
Q81	
Q82	
Q83	
Q84	
Q85	
Q86	
Q87	
Q88	
Q89	
Q90	
Q91	
Q92	
Q93	
Q94	
Q95	
Q96	
Q97	
Q98	
Q99	
Q100	



